CLAIMS

1. A method for isolating a polynucleotide encoding an antibody against a lesional tissue, wherein the method comprises the steps of:
(a) isolating a lesional tissue-infiltrating B cell; and
(b) obtaining a polynucleotide encoding an antibody from the isolated B cell.

2. The method of claim 1, wherein the lesional tissue is a cancer tissue.

3. The method of claim 1, wherein step (a) of isolating a lesional tissue-infiltrating B cell comprises the step of excising a region comprising a B cell from a section of said lesional tissue.

4. The method of claim 1, wherein step (b) of obtaining a polynucleotide encoding an antibody comprises the step of amplifying a gene encoding an antibody variable region.

5. An antibody-encoding polynucleotide isolated by the method of claim 1.

6. The polynucleotide of claim 5, wherein the antibody-encoding polynucleotide comprises a polynucleotide encoding an antibody variable region.

7. An expression vector comprising the polynucleotide of claim 5.

8. A host cell comprising the polynucleotide of claim 5 or the expression vector of claim 7.

9. A method for producing an antibody, wherein the method comprises the steps of:
culturing the host cell of claim 8; and
recovering an antibody which is the expression product.

10. An antibody produced by the method of claim 9.

11. An antibody encoded by the polynucleotide of claim 5.

12. The antibody production method of claim 9, wherein the method further comprises the steps of:
(1) contacting the antibody obtained by the method of claim 9 with a lesional tissue;
(2) detecting the binding between the antibody and the lesional tissue; and

(3) selecting an antibody that binds to the lesional tissue.